

**EXAMPLE FORM
EQUIPMENT PERFORMANCE EVALUATION
VETERINARY RADIOGRAPHIC UNIT
25 TAC §289.233(i)(5)(N)**

Facility Name: _____ Registration No.: _____ Date: _____

Service Company: _____ Service Company Registration No.: _____

Survey Instrument Used: _____ ☐ Exposed sensor/detector OR ☐ Enclosed sensor/detector

Instrument Calibration Date: _____ Technician Signature: _____

X-RAY UNIT IDENTIFICATION (FROM CONTROL PANEL)

Manufacturer: _____ Location/Room: _____

Model No.: _____ Serial No.: _____

TIMER ACCURACY

Pass() Fail()

Regulation: The accuracy of the timer shall meet the manufacturer's specifications. If the manufacturer's specifications are not obtainable, the timer accuracy shall be ± 10 percent of the indicated time with the testing performed at 0.5 second. (See 25 TAC §289.233(i)(5)(N)(i)(I))

SELECT ONE: ☐ Manufacturer specifications which are _____ OR ☐ $\pm 10\%$ tolerance

Time used for testing _____ msec OR _____ pulses (No time greater than 0.5 second (500 msec) to be used)

Perform four measurements _____ msec/pulses _____ msec/pulses
_____ msec/pulses _____ msec/pulses

When the timer is set to "zero" or "off", an exposure is not permitted. Y _____ N _____ NA _____

KVP

Pass () Fail ()

Regulation: The accuracy of the kVp shall meet the manufacturer's specifications. If the information is not available, the indicated kVp shall be accurate to within ± 10 percent of the indicated setting at no less than three points over the usual operating range of the machine. (For units with fewer than three fixed kVp settings, the unit shall be checked at those settings.) (See 25 TAC §289.233(i)(5)(N)(i)(II))

Select: ☐ Manufacturer specifications used which are _____ OR

☐ $\pm 10\%$ of indicated setting

((Measured kVp – Indicated kVp) \div Indicated kVp) X 100 = % of Deviation

Indicated kVp _____	Measured kVp _____	Deviation _____	%
Indicated kVp _____	Measured kVp _____	Deviation _____	%
Indicated kVp _____	Measured kVp _____	Deviation _____	%
Indicated kVp _____	Measured kVp _____	Deviation _____	%

VETERINARY EQUIPMENT PERFORMANCE EVALUATION

Registration No.: _____

X-ray unit Serial No.: _____

TUBE STABILITY

Pass () Fail ()

Hand Held Unit NA ()

Regulation: The x-ray tube shall remain physically stable during exposures. (See 25 TAC §289.233(i)(5)(N)(i)(III))

The tube is stable in all orientations with free movement where designed.

IF THIS IS A DENTAL X-RAY UNIT USED FOR VETERINARY EXAMINATIONS, OMIT THE COLLIMATION SECTION. Complete this section for all other units.

COLLIMATION

Pass () Fail ()

Regulation: See 25 TAC §289.233(i)(5)(N)(i)(IV)

Source to image distance (SID) numerical indicator present.

T _____ F _____

(Circle inches or centimeters for all testing in this section.)

Indicated SID: _____ in/cm x .02 = _____ in/cm tolerance

Measured SID: _____ in/cm

Misalignment : _____ in/cm

Indicator accurate to within 2% of indicated setting.

T _____ F _____

The beam limiting device must limit the x-ray field so that the field does not exceed 2.0% of the SID for the width or length of a rectangular image receptor (x-ray film).

Image Receptor: width _____ in/cm length _____ in/cm

X-ray field size: width _____ in/cm length _____ in/cm

Misalignment: width _____ in/cm length _____ in/cm

The width or length of the x-ray field does not exceed the image receptor by more than 2% of the SID.

T _____ F _____

(When using a rectangular image receptor with a circular x-ray field, the diameter of the circular field may not exceed the dimension equal to 2% of the SID plus the diagonal of the rectangular image receptor.)

The beam limiting device is capable of restricting the x-ray field to the area of clinical interest.

T _____ F _____

What means are used by the facility personnel to center the primary beam to the image receptor?

☐ light field/cross hairs ☐ pointer ☐ other _____

The center of the primary beam to the center of the image receptor is within 2% of the SID.

T _____ F _____

For any failure indicated during the Equipment Performance Evaluation, correction must begin within 30 days of the evaluation date and be completed within 90 days.

All records of the corrective action must be retained by the facility, in accordance with 25 TAC §289.233(j)(2), and made available to the Department of State Health Services upon request.